Replacement Sheet 1/11 Appln. No. 10/528,006 Inventor: Pierre J. Messier, et al. Atty Docket No.: 102785-337-NP2 Title: Facemask with Filtering Closure



Fig. 1

Replacement Sheet 2/11 Appln. No. 10/528,006 Inventor: Pierre J. Messier, et al.

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SINGLE MEDIA

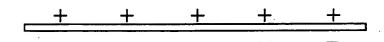
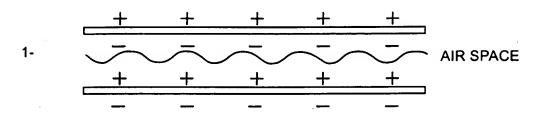


Fig. 2

Replacement Sheet 3/11 Appln. No. 10/528,006 Inventor: Pierre J. Messier, et al. Atty Docket No.: 102785-337-NP2 Title: Facemask with Filtering Closure

DOUBLE LAYER MEDIA



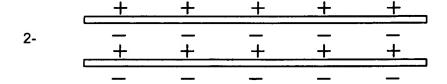
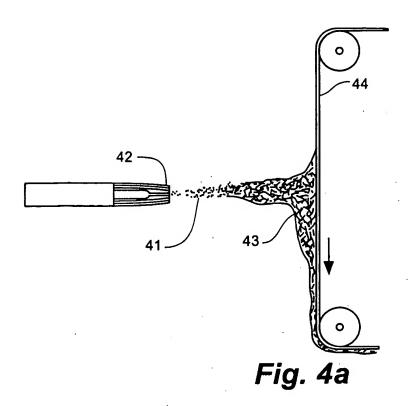


Fig. 3

Replacement Sheet 4/11 Appln. No. 10/528,006 Inventor: Pierre J. Messier, et al. Atty Docket No.: 102785-337-NP2 Title: Facemask with Filtering Closure



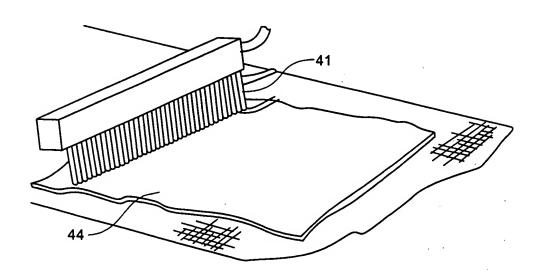


Fig. 4b

Replacement Sheet 5/11 Appln. No. 10/528,006 Inventor: Pierre J. Messier, et al. Atty Docket No.: 102785-337-NP2 Title: Facemask with Filtering Closure

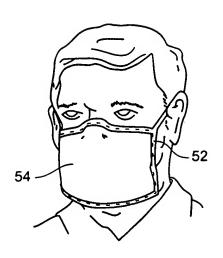
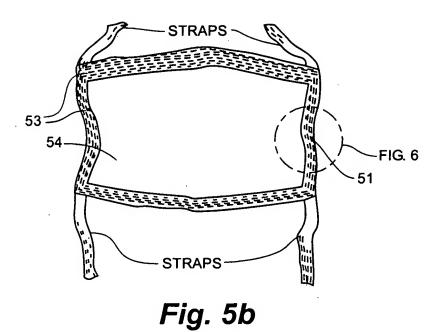


Fig. 5a



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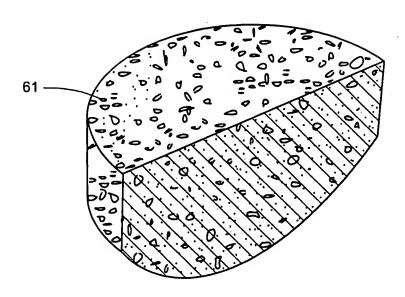


Fig. 6

EXHIBIT A

Experiment No AF276: Biocidal air filtration membrane project: Performance of different filtration membrane against BG spores for 30, 60, 120, 180, 240, 300 and 360 minutes of filtration

			BG				BG
			30 min 7.5 LPM				60 min 7.5 I PM
	סר	CFU total	% Reduction		ದ	CFU total	% Reduction
2M03-01-75C+	19.5	0.00E+00	100.00000%	2M03-01-75C+	21.0	0.00E+00	100.00000%
2M03-01-75C+	21.5	0.00E+00	100.0000%	2M03-01-75C+	20.5	0.00E+00	100.00000%
Transweb	17.5	1.75E+01	99.99471%	Transweb	20.0	0.00E+00	100.00000%
ţ	21.5	3.31E+05	0.00000%	ţ	18.5	1.49E+08	0.00000%
			BG	•			BG
			120 min				180 min
		ı	r.o Lrm				7.5 LPM
	占	CFU total	% Reduction		占	CFU total	% Reduction
2M03-01-75C+	12.5	0.00E+00	100.0000%	2M03-01-75C+	16.0	3.20E+01	99.99924%
2M03-01-75C+	19.0	0.00E+00	100.0000%	2M03-01-75C+	17.0	0.00E+00	100.00000%
Transweb	6.5	1.30E+01	99.99496%	Transweb	15.0	0.00E+00	100.00000%
ţ	16.0	2.58E+05	0.00000%	ţ	18.5	4.20E+08	0.00000%
			BG				BG
			240 min	,			300 min
			7.5 LPM				7.5 LPM
	סר	CFU total	% Reduction		겁	CFU total	% Reduction
2M03-01-75C+	19.0	0.00E+00	100.0000%	2M03-01-75C+	13.5	2.70E+01	99.99884%
2M03-01-75C+	16.0	0.00E+00	100.00000%	2M03-01-75C+	16.0	0.00E+00	100.00000%
Transweb	11.0	0.00E+00	100.00000%	Transweb	9.0	0.00E+00	100.00000%
ţ	13.0	4.21E+06	0.00000	ţ	9.0	2.32E+06	0.00000

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EXHIBIT A

Performance of different filtration membrane against BG spores Experiment No AF276: Biocidal air filtration membrane project: for 30, 60, 120, 180, 240, 300 and 360 minutes of filtration

			ВС
			360 min
			7.5 LPM
	ם	CFU total	% Reduction
2M03-01-75C+	9.0	0.00E+00	100.00000%
2M03-01-75C+	16.0	4.80E+01	99.99923%
Transweb	14.0	0.00E+00	100.0000%
ţ	11.0	6.20E+06	%000000

For BG tests

Challenge microorganism: BG

6 jets Modified Collision Nebulizer Aerosol generated by:

Air flow velocity: 7.5 LPM pre-vaporisation: 30 min

Filtration time: 30 minutes Nebulizer air flow: 40 PSI

Collection fluid: 5 ml of PBS with 0.001% antifoam A Sampling on TSA

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Non-woven + Triosyn + Electrostatic charge Electrostatic non-woven without Triosyn Detection Level 2M03-01-75C+ Transweb

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EXHIBIT B

Biocidal air filtration membrane project: Performance of different filtration membrane against MS2 viruses for 60, 120, 180, 240, 300 and 360 minutes of filtration

								MS2
							3	60 min
							7.5	7.5 LPM
						ם	PFU total	PFU total % Reduction
				2M03-01-92C+	92C+	4.2	0.00E+00	100.00000%
				Transweb	9	4.3	1.29E+03	99.89250%
				ţ		4.0	1.20E+06	0.00000%
			MS2					MS2
		1	120 min				18	180 min
		7.	7.5 LPM			:	7.7	7.5 LPM
	Ы	PFU total	% Reduction			д	PFU total	PFU total % Reduction
2M03-01-92C+	4.0	0.00E+00	100.00000%	2M03-01-92C+	-92C+	4.0	0.00E+00	100.00000%
Transweb	2.2	1.76E+03	99.08808%	Transweb	q	3.5	4.23E+03	99.94125%
ţ	4.1	1.93E+05	0.00000	ţ		3,6	7.20E+06	0.00000%
			MS2					MS2
		. 2	240 mln				30	300 min
		7.	7.5 LPM				7.7	7.5 LPM
	占	PFU total	% Reduction			2	PFU total	PFU total % Reduction
2M03-01-92C+	3.9	0.00E+00	100.00000%	2M03-01-92C+	-92C+	4.1	0.00E+00	100.00000%
Transweb	3.9	8.34E+04	99.01882%	Transweb	q	3.9	4.79E+05	96.45185%
ţ	3.9	8.50E+06	0.00000%	ಕ		4.2	1.35E+07	0.00000

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EXHIBIT B

Performance of different filtration membrane against MS2 viruses for 60, 120, 180, 240, 300 and 360 minutes of filtration Biocidal air filtration membrane project:

			MS2
		Ë	360 min
		7.	7.5 LPM
	더	PFU total	% Reduction
2M03-01-92C+	3.8	0.00E+00	100.00000%
Transweb	3.9	4.62E+05	97.47541%
¢	3.9	1.83E+07	0.00000

For MS2 tests

Challenge microorganism: MS2

Aerosol generated by:

6 Jets Modified Collision Nebulizer

pre-vaporisation: 30 min

Air flow velocity: 7.5 LPM

Nebulizer air flow: 40 PSI

Collection fluid: 5 ml of PBS with 0.001% antifoam A Sampling on MS2 media by single layer soft agar Filtration time: 30 min, 1, 2, 3, 4, 5 and 6 hours

Non woven + Triosyn + Electrostatic Charge Electrostatic Non Woven without Triosyn **Detection Level** 2M03-01-92C+: Transweb:

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EXHIBIT B

Performance of different filtration membrane against MS2 virus Experiment No AF270: Biocidal air filtration membrane project: for 30 minutes of filtration

			MS2
		e	30 min
		7.	7.5 LPM
	סר	PFU total	% Reduction
M03-01-69-C+	4.3	0.00E+00	100.00000%
M03-01-81-C+	4.2	0.00E+00	100.00000%
Transweb	4.0	2.48E+02	88.99757%
÷	3.9	1.02E+07	0.00000%

For MS2 tests

Challenge microorganism: MS2

Aerosol generated by: 6 jets Modified Collision Nebulizer

pre-vaportsation: 30 min

Air flow velocity: 7.5 LPM

Filtration time: 30 minutes Nebulizer air flow: 40 PSI

Collection fluid: 5 ml of PBS with 0.001% antifoam A Sampling on MS2 media by single layer soft agar

 M03-01-69-C+	Non woven + Triosyn + Electrostatic Charge
Transweb	Electrostatic non-woven without Triosyn
DL.	Detection Level